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SOURCE Periodical and newspapers as indicated.

NEW COMBINE FEATURES PNEUMATIC MOTOR;
MACHINES FOR COAL, PETROLEUM, PEAT INDUSTRY APPEAR

INVENTORS ARE STALIN PRIZE WINNERS -- Moscow, Ogonyek, 30 Mar 52

The new KKP-1 coal combine was invented by A. V. Topchiyev, A. A. Pichugin, V. M. Balykov, and N. M. Ksenofontov; considerable work in effecting its industrial application was done by S. M. Ostrovskiy, N. V. Grebtsov, V. E. Sugonyako, E. K. Starodubtsev, M. K. Khalimoshkin, and A. Ya. Chichkan. All men are Stalin Prize winners.

The KKP-1 does not cut coal as other combines do, but shears it from the surface of the face, using three special cutters instead of the usual 30-40 bit cutter chains. Since this new extraction method does not require so much power as others, it was found feasible to power the combine by a pneumatic motor. The KKP-1 is thus the world's first pneumatic-powered coal combine.

When the steep pitching seams of the Donbass are worked with pick hammers, they are terraced; the KKP-1 cuts along the face in a straight line, making the process safer.

The substitution of pneumatic for electric power is another important safety feature of the new combine, as is the fact that it generates little or no dust.

The KKP-1 is being well received throughout the Donbass. In one section of a mine, the combine doubled the extraction total and increased labor productivity two to three times. It is cutting the cost of producing coal 25 percent in the same section.

MODIFY DONBASS COMBINE -- Kiev, Pravda Ukrainy, 18 Mar 52

Designers of the Gorlovka Plant imeni Kirov, working with scientists of the Donets Affiliate of the State Institute for Planning Coal Machines, have turned out an improved model of the Donbass coal combine. The coal-cutting

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system has been radically changed, replacing the breaker-bar shearing-disk unit with a special device on which a cutter chain is mounted. It was found that the new arrangement creates less dust.

Some experimental models of the modified combine will be sent to the mines.

Kishinev, Sovetskaya Moldaviya, 19 Mar 52

The Gorlovka Machine Building Plant imeni Kirov builds large mine ventilators, some of which go to Donbass mines.

COMPLETE SECOND LOADER -- Yerevan, Kommunist, 12 Feb 52

The Stalinsk Kuznetskiy Mining Machinery Plant recently sent to the Donbass a pneumatic coal loader which can be operated by only one worker. The plant has completed another such loader.

CONTRIBUTE CONVEYERS, LOADERS -- Moscow, Izvestiya, 21 Feb 52

The Khar'kov Svet Shakhtera Plant recently shipped to the mines some of the new SKR-17 conveyers and some coal loaders. The plant has designed a new miner's lamp, the LAR-1, which is $1\frac{1}{2}$ times as bright as lamps of the older model.

NEW LOCOMOTIVES MORE MANEUVERABLE -- Yerevan, Kommunist, 19 Mar 52

The Aleksandrovskiy Machine Building Plant imeni Voroshilov (Molotov Oblast) has built and tested on the plant stand two 12-ton storage-battery mine locomotives. Their maneuverability exceeds that of existing models.

PRODUCE CONCENTRATING EQUIPMENT -- Alma-Ata, Kazakhstanskaya Pravda, 24 Jan 52

The Karaganda Plant imeni Parkhomenko has established production of a new aggregate for concentrating plants and of a special jack for installing metal mine props. Twenty-six of the jacks have been sent to the mines. The plant will produce 3,000 of them during 1952.

NEW PUMP PASSES TESTS -- Kishinev, Sovetskaya Moldaviya, 4 Jan 52

The Kostroma Rabochiy Metallist Plant has turned out an experimental model of a crawler mounted, self-propelled dredging pump for use in the coal industry. The machine proved satisfactory in plant tests.

PUMP EXCEEDS RATED EFFICIENCY -- Baku, Bakinskiy Rabochiy, 20 Feb 52

The Tallin Machine Building Plant has just tested an experimental model of a centrifugal pump, put out for enterprises of the petroleum industry. Results were satisfactory and showed the pump's efficiency to be 20 percent greater than rated.

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WINCH TO SERVE DRILLING RIGS -- Baku, Bakinskiy Rabochiy, 23 Jan 52

The Sverdlovsk Uralmash Plant has begun series production of a modernized winch, to be used with drilling rigs at petroleum and gas wells.

SINGLE WORKER OPERATES NEW PEAT-EXTRACTION MACHINE -- Vil'nyus, Sovetskaya Litva, 17 Feb 52

The Leningrad Reduktor Plant has established production of a universal peat-extraction machine, which has performed well on tests. Operated by a single worker, it automatically converts the layer of peat into small particles, compresses it into briquettes, and spreads it out for drying. In one shift, the machine can process over 160 cubic meters of briquettes. An automatic device for uprooting stumps obviates preliminary uprooting operations.

The new machine weighs 2 tons. It can easily be transported by ordinary conveyances.

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